

Appendix A: Tables I-III Detailing preferred materials for use in some preferred embodiments

Table I describes the component formulations.

COMPONENT	
A	paraffin wax, melting point 60°C
B	pure monomer hydrocarbon resin comprising a copolymer of α-methylstyrene, vinyl toluene; viscosity 1000 cps @130°C; softening point 78-95°C.
C	medium hard microcrystalline ester wax; viscosity 16 cps @ 100°C; melting point 78-86°C; penetration 1.7 mm @ 25°C
D	hard microcrystalline wax; viscosity 16 cps @ 100°C; melting point 93°C; penetration 0.55mm @ 25°C
E	soft microcrystalline wax; viscosity 13 cps @ 100°C; melting point 69°C; penetration 2.9mm @ 25°C
F	ethylene-vinyl acetate copolymer; viscosity 575 cps @ 140°C; melting point 92°C
G	tetrakis[methylene (3,5-di-tert-butyl-4-hydroxyhydrocinnamate)] methane, an antioxidant; melting point 110-125°C
H	dioctylphthalate (DOP), a plasticizer
I	dioctylterephthalate (DOTP), a plasticizer
J	2,6-di-tert-butyl-4-methylphenol, an antioxidant
K	diisobutyl phthalate (DINP), a plasticizer
L	dye or coloring compound
M	methacrylate terminated polystyrene
N	free radical photoinitiator
O	polyethylene oxide, average molecular weight 2000
P	epoxy novolac oligomer
Q	cationic photoinitiator
R	multifunctional acrylate

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Table II-A and II-B present formulations of preferred materials for use in some preferred embodiments by component designation.

TABLE II-A

-----Weight % -----

<u>COMPONENT</u>		<u>Ex. 1</u>	<u>Ex. 2</u>	<u>Ex. 3</u>	<u>Ex. 4</u>	<u>Ex. 5</u>	<u>Ex. 6</u>
A		21	21	44	25	20	20
B		49	49	25	20	25	50
C		12	12	12	-	-	12
D		5	5	6	10	5	5
E		5	5	6	20	20	5
F		4	4	2.3	20	25	4
G		2	2	-	-	-	-
H		-	2	-	-	-	-
I		-	-	2.3	2	2.5	2
J		-	-	2.3	3	2.5	2
K		2	-	-	-	-	-
<u>PROPERTIES</u>							
Viscosity @ 130 °C	cps /°C	22	22	7	20	28	24
Hardness	shore D				28	26	
Impact Energy	kJ/m ²				1.4	2.2	

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TABLE II-B

COMPONENT	Ex. 7	Ex. 8	Ex. 9
A	21		
M	51		
C	12		
D	5		
E	5		
F	5		
N	1		1
O		77	77
P		22	
Q		1	
R			22

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TABLE III

COMPONENT	NAME	SUPPLIER
A	Paraffin	Allied Signal Inc., Morristown, NJ
B	"PICOTEX LC"	Hercules, Inc., Wilmington, DE
C	"X-22"	Hoechst Celanese Corp., Somerville, NJ
D	"C-700"	Petrolite Corp., Tulsa, OK
E	"ULTRAFLEX"	Petrolite Corp., Tulsa, OK
F	"AC-400"	Allied Signal Inc., Morristown, NJ
G	"IRGANOX 1010"	Ciba-Geigy Corp., Hawthorne, NY
H	DOTP	Aldrich Chemical Co., Inc., Milwaukee, WI
I	DOP	Aldrich Chemical Co., Inc., Milwaukee, WI
J	"BHT"	Aldrich Chemical Co., Inc., Milwaukee, WI
K	DINP	Aristech Chemical Corp., Cleveland, OH
M	"13K-RC"	Sartomer Co., West Chester, PA
N	"IRGACURE 184"	Ciba-Geigy Corp., Hawthorne, NY
O	Polyethelene Oxide	Dow Chemicals, Midland, MI
P	"DEN 438"	Dow Chemicals, Midland, MI
Q	"UVI 6974"	Union Carbide Chemicals, Danbury, CT
R	"SR 399"	Sartomer Co., West Chester, PA